Request to Archive
With The National Centers for Environmental Information
For Enhanced Master Station History Report
Provided by NCDC/GCAD/PDB

2012-08-30

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Shelley McNeill
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2. Name the organization or group responsible for creating the dataset.

NCDC/GCAD/PDB

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The Enhanced Master Station History Report is an expanded version of the Master Station History Report (MSHR). It contains additional items including station status, additional IDs, NWS region, NWS WFO, all elevations, utc_offset, and simpler observing environment and platform classifications.

It also sources from both MMS and ISIS, ensuring the most up-to-date station metadata for USCRN, USRCRN, and AL USRCRN stations.

FIELD FORMAT DESCRIPTION
SOURCE_ID 9(16) Unique identifier of source system.
SOURCE X(10) Name of source system (MMS, ISIS, GHCND, etc).
BEGIN_DATE DATE YYYYMMDD - Beginning date of record, set to 00010101 if date is unknown.
END_DATE DATE YYYYMMDD - Ending date of record, set to 99991231 if station is currently open
STATION_STATUS X(20) Displays INACTIVE if station is currently inactive and not closed. END_DATE would be effective date of inactivation. For ISIS stations, the status will display either OPERATIONAL or NON-OPERATIONAL.
NCDCSTN_ID X(20) Unique identifier used by the NCDC.
ICAO_ID X(20) Used for geographical locations throughout the world, managed by the International Civil Aviation Organization.
WBAN_ID X(20) Used at NCDC for digital data storage and general station identification purposes.
FAA_ID X(20) Alpha-numeric, managed by USDT Federal Aviation Administration used for site identification of sites vital to navigation. Commonly referred to as "Call Sign".
NWSLI_ID X(20) Alpha-numeric, assigned by the National Weather Service for use in real-time data transmissions and forecasts.
WMO_ID X(20) Assigned by World Meteorological Organization, used for international weather data exchange and station documentation.

COOP_ID X(20) Assigned by the NCDC, first 2 digits represent state, last 4 digits are assigned numerically by alphabetical ordering of the station name.
TRANSMITTAL_ID X(20) Holds miscellaneous IDs that do not fall into an officially sourced ID category that are needed in support of NCDC data products and ingests.
GHCND_ID X(20) Populated if station is included in GHCN-Daily product.
NAME_PRINCIPAL X(100) Name of station, upper case may contain characters, numbers or symbols.
NAME_PRINCIPAL_SHORT X(30) Name of station, upper case may contain characters, numbers or symbols.
NAME_COOP X(100) Coop station name as maintained by NWS Cooperative network on WS Form B-44, upper case may contain characters, numbers or symbols.
NAME_COOP_SHORT X(30) Abbreviated Coop station name, limited to 30 characters, used by the CD publication.
NAME_PUBLICATION X(100) Populated with station names from legacy IPB.STATION table (LCD, QCLCD, ISD, etc).
NAME_ALIAS X(100) Any station alias known.
NWS_CLIM_DIV X(10) Usually contains a number between 01 and 10 indicating climate division as determined by master divisional reference maps. Assigned by the NCDC.
NWS_CLIM_DIV_NAME X(40) Climate division name.
STATE_PROV X(10) USPS two character alphabetic abbreviation for each state, uppercase.
COUNTY X(50) Name of county, upper case.
NWS_ST_CODE X(2) NWS state code.
FIPS_COUNTRY_CODE X(2) FIPS country code.
FIPS_COUNTRY_NAME X(100) FIPS country name.
NWS_REGION X(30) NWS region (ALASKAN, CENTRAL, EASTERN, PACIFIC, SOUTHERN, WESTERN).
NWS_WFO X(10) NWS WFO.
ELEV_GROUND X(40) Ground elevation.
ELEV_GROUND_UNIT X(20) Ground elevation unit (should always be FEET).
ELEV_BAROM X(40) Ivory point of the Barometer or Altimeter Setting.
ELEV_BAROM_UNIT X(20) Barometric elevation unit (should always be FEET).
ELEV_AIR X(40) Field, Aerodrome, or Runway elevation.
ELEV_AIR_UNIT X(20) Airport elevation unit (should always be FEET).
ELEV_ZERODAT X(40) Zero Datum of a River Gage.
ELEV_ZERODAT_UNIT X(20) Zero datum elevation unit (should always be FEET).
ELEV_UNK X(40) Elevation value, type unknown.
ELEV_UNK_UNIT X(20) Unknown elevation unit (should always be FEET).
LAT_DEC X(20) Decimal latitude, blank indicates North and "-" indicates South.
LON_DEC X(20) Decimal longitude, blank indicates East and "-" indicates West.
LAT_LON_PRECISION X(10) Indicates precision of source lat and lon before they were converted to degrees, minutes, seconds.
RELOCATION X(62) Distance and direction of station relocation expressed as a distance value(1-4 characters), space, distance units(2 character abbreviation), space, and direction(1-3 character 16-point cardinal direction). Date of relocation indicated by begin date of record.
UTC_OFFSET 9(16) Time zone, UTC offset.
OBS_ENV X(40) Type of observing programs associated with the station (LANDSFC, RADAR, UPPERAIR, UNKNOWN), delimited by comma.
PLATFORM X(100) Platforms station participates in (AIRSAMPLE, AIRWAYS, AL USRCRN, AMOS, ASOS, AWOS, BASIC, COOP, MILITARY, NEXRAD, RADAR, SURFRAD, SYNOPTIC, UPPERAIR, USCRN, USRCRN, WXSVC, UNKNOWN), delimited by comma.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1753

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

1.0

6. Describe the level to which the data are processed. For example, are these unprocessed raw observations, derived parameters, quality controlled or inter-calibrated data, etc.?

Input is received from the NWS/CSSA system ... these data are screened and then validated before updates are manually made to MMS - which will result in a change to the Report file.

7. Approximate date when the dataset was or will be released to the public:

2012-05-30

8. Who are the expected users of the archived data? How will the archived data be used?

* CAB/Ron Ray/Bryant Korzeniewski: CTXT_MSHR_GHCND_ARCHIVE & CTXT_PHR_ARCHIVE using MAX(REPORT_MONTH)
    - o For summary report & to map data files for digital & non-digital
    - o For station conversion date to paperless (WXCDR3 & IVROCS)
    - o For inactive published stations
    - o For Conrice and Upd_drd files for CMB
    - o For Palmweekly report
    - o 3220 processing for Bowman
* CAB/Steven Anthony: CTXT_PHR_ARCHIVE using MAX(REPORT_MONTH)
    - o For obs times supplement into GHCN-D
* CAB/Bryant Korzeniewski (custom, access via SQL Dev)
    - o RPT_PHR_WXCODER3_BY_WFO
    - o RPT_PHR_CD_PUB_SOIL_STATIONS
* DAB/Brian May
    - o Used to new CDO application for GHCN-Daily
    - o STN_ID_LOC_ELEV_HOMR_HST
    - o STN_ID_NAME_HOMR_HST

9. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

No

10. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

originally as Data Set 9767B (DSI-9767B)

11. List the input datasets and ancillary information used to produce the data.

It sources from both MMS and ISIS, ensuring the most up-to-date station metadata for USCRN, USRCRN, and AL USRCRN stations.

12. List web pages and other links that provide information on the data.

the data itself is metadata on observing stations. no additional metadata is provided

13. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. https://local.ncdc.noaa.gov/wiki/index.php/GHCN-D_Station_Metadata_Support

14. Indicate the data file format(s).

1. ASCII

15. Are the data files compressed?

No

16. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

Flat file
mshr-enhanced_v<xx>r<xx>_<yyyymmdd>_<yyyymmdd>_c[YYYYMMDD]T[hhmmss]Z.txt.gz

17. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

18. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate:	10MB per Day
Data File Frequency:	1 per Day
Data Production Start:	2012-05-30

19. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

as more networks are included there may be a need to expand the format and update the version of this report.

20. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location:	NCDC, Asheville, NC
System Name:	Multi-Network Metadata System
System Owner:	NCDC/GCAD/PDB
Additional Information:	Add comments as needed on applicable data types, etc.

21. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH

22. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Direct download links

23. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

24. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

This data set contains additional data elements and is produced on a daily basis for CDO.

It is not replacing the MSHR because the MSHR is used as input production systems which are not being changed at this time.

25. Are the data archived at another facility or are there plans to do so? Please explain.

No

26. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

See Data Set 9767B (DSI-9767B)

27. Do you have a data management plan for your data?

No

28. Have funds been allocated to archive the data at NCEI?

No

29. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

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30. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2015-03-31

Accessible by:

31. Add any other pertinent information for this request.

None